

11-06-19

Total No. of printed pages = 6

1.5

BINA CHOWDHURY CENTRAL LIBRARY  
(GIMT & GIPS)  
Azara, Hatkhowapara,  
Guwahati - 781017

Roll No. of candidate

--	--	--	--	--	--	--	--	--	--

2019

**D.Pharm. 1st Year End-Term Examination**

**HUMAN ANATOMY AND PHYSIOLOGY**

**(Old Regulation)**

Full Marks – 80

Time – Three hours

---

The figures in the margin indicate full marks  
for the questions.

Answer question No. 1 and any six from the rest.

Group A. Answer all the questions (20 × 1 = 20)

1. The organelles responsible for protein synthesis
  - (a) Ribosome
  - (b) Nucleus
  - (c) Golgi apparatus
  - (d) Cell membrane
2. Which cell do not present in connective tissue
  - (a) Mast cell
  - (b) Plasma cell
  - (c) Macrophage
  - (d) platelets

[Turn over

3. Following is a protein responsible for maintaining osmotic pressure of blood
  - (a) Albumin
  - (b) Globulin
  - (c) Fibrinogen
  - (d) None
4. The hormone responsible for RBC production
  - (a) Thrombopoietin
  - (b) Erythropoietin
  - (c) Growth hormone
  - (d) Thyroxin
5. Breakdown of haemoglobin gives
  - (a) Uric acid
  - (b) Bilirubin
  - (c) Transferring
  - (d) None
6. Haemolytic disease of newborn
  - (a) Erythroblastosis foetalis
  - (b) Glaucoma
  - (c) Myocardial ischaemia
  - (d) GERD
7. Vestibulocochlear Nerve is responsible for
  - (a) Smell
  - (b) Vision
  - (c) Hearing and balance
  - (d) Taste

8. Insulin is released from
- (a) Adrenal gland
  - (b) Liver
  - (c) Thyroid gland
  - (d) Pancreas
9. Junction between two nerves
- (a) Neuron
  - (b) Receptor
  - (c) Synapse
  - (d) Vesicles
10. Which one is said as pacemaker of heart
- (a) AV node
  - (b) Bundle of HIS
  - (c) SA node
  - (d) Purkinje fibres
11. In cardiac cycle the duration of ventricular systole is
- (a) 0.4 sec
  - (b) 0.3 sec
  - (c) 0.2 sec
  - (d) 0.1 sec
12. Parts of brain coordinating muscle movements, maintaining posture and balance is
- (a) Cerebrum
  - (b) Hypothalamus
  - (c) Cerebellum
  - (d) Pons

BINA CHOWDHURY CENTRAL LIBRARY  
(GIMT & GIPS)  
Azara, Hatkhowapara,  
Guwahati -781017

13. The ventricles of the brain contains
- (a) Cerebro Spinal Fluid
  - (b) Pericardial Fluid
  - (c) Perilymph
  - (d) Endolymph
14. Movement of eyeball is carried out by
- (a) Optic nerve
  - (b) Olfactory nerve
  - (c) Occulomotor Nerve
  - (d) Vagus Nerve
15. Micturation is
- (a) Process of urine formation
  - (b) Urinary disease
  - (c) Passing of urine
  - (d) None
16. Sound is produced in the following organ
- (a) Pharynx
  - (b) Trachea
  - (c) Bronchus
  - (d) Laryns
17. Salivary gland contains following enzyme
- (a) Lipase
  - (b) Amylase
  - (c) Protease
  - (d) Endonuclease

18. H.pylori can cause

- (a) Peptic ulcer
- (b) Asthma
- (c) Liver damage
- (d) Kidney damage

19. Smallest bone of human body

- (a) Stapes
- (b) Malleus
- (c) Incus
- (d) Ribs

20. An involuntary and immediate motor response to a sensory stimulus is known as

- (a) Reflex action
- (b) Motor action
- (c) Sensory Action
- (d) Neuro degeneration

Group B. (Any six)

21. Classify epithelial tissue. Draw the diagram of each class and explain. (5)

22. Describe the physiology of Internal and external respiration. (5)

23. What are the functions of digestive system? Write a note on Gastric juice. (5)

24. Explain the physiology of menstruation. (5)

25. Discuss plasma membrane by drawing the structure. (5)
26. What is the composition of blood? Write note on haemopoiesis. (2+3=5)
27. Write short notes on (2.5+2.5=5)
- (a) ECG
- (b) Haemoglobin
28. Explain the physiology of hearing. (5)
29. Classify anaemia. Describe any two types of anaemia. (1+4=5)

BINA CHOWDHURY CENTRAL LIBRARY  
(GIMT & GIPS)  
Azara, Hatkhowapara,  
Guwahati -781017

Group C. (Answer any *three*)

30. What is blood pressure? Describe the mechanism of regulation of blood pressure. (1+9=10)
31. Draw a neat and clean diagram of eye, label it and explain its various parts. (10)
32. Describe the process of urine formation. (10)
33. Define cell. Draw the structure of cell and explain its organelles. (10)
34. What is blood coagulation? Explain the process of coagulation of blood by mentioning the clotting factors. (1+9=10)